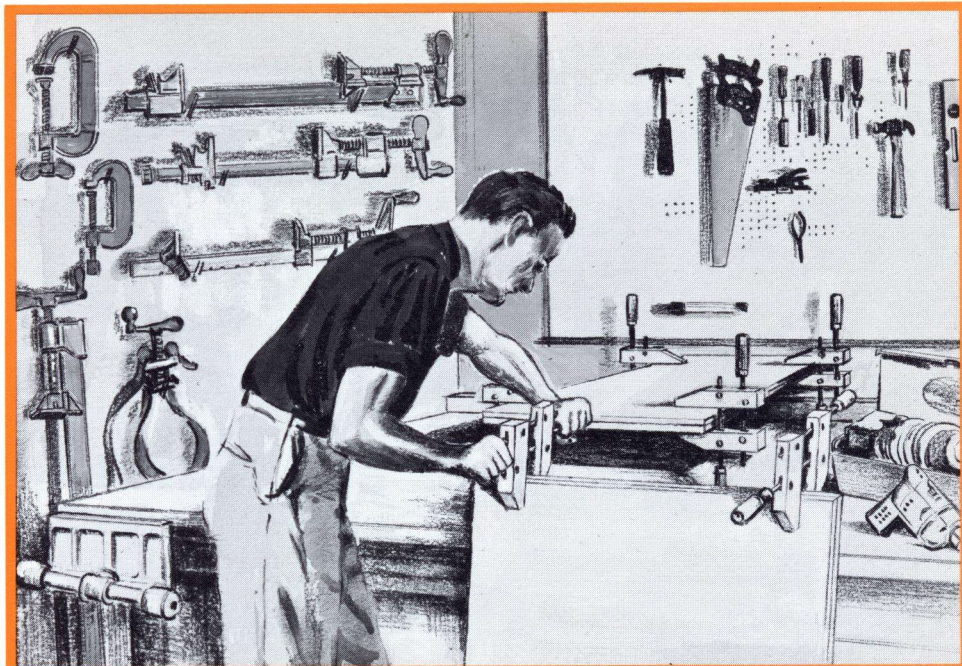


to help you
ACHIEVE
EXPERT
RESULTS
 in your
 workshop

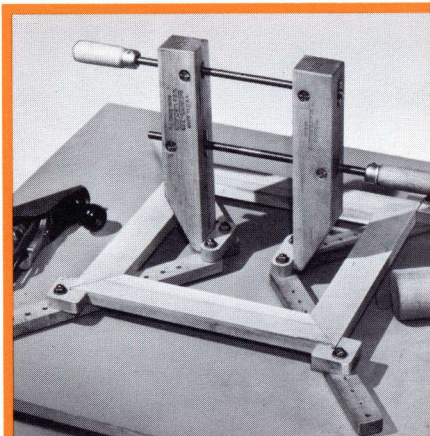


here are TWO unusual projects
 to equip your shop for

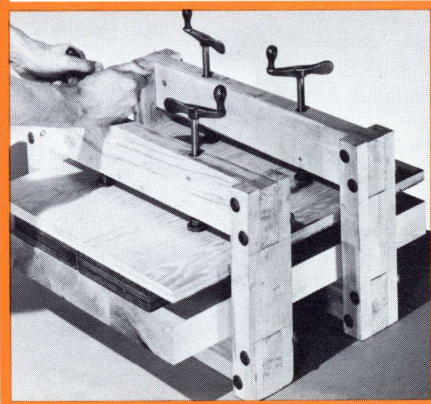
MITERING

and

VENEERING



As the pressure-applying part of the mitering jig, a regular "Jorgensen" Hand-screw applies equal pressure simultaneously at all four corners of the frame. Easy-to-make jig leaves glue joints visible for inspection, eliminates the extra expense of buying, and the extra time of applying, a separate clamp for each joint.



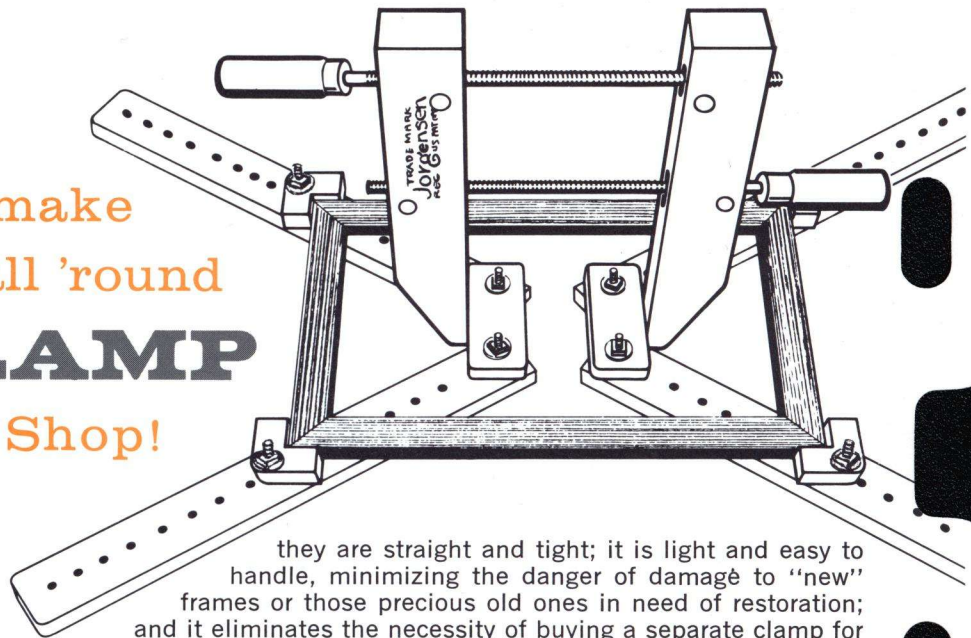
"Jorgensen" Press Screws, installed along the top members of easy-to-construct frames, distribute the uniform pressure over broad areas required to face plywood panels, table or counter tops . . . to apply Formica, Micarta, or hardboard surfaces . . . to laminate special parts . . . or assemble cabinet members under heavy pressure.

YOU can make the most practical, all 'round **MITER CLAMP** in your own Shop!

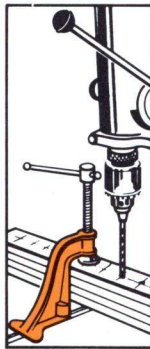
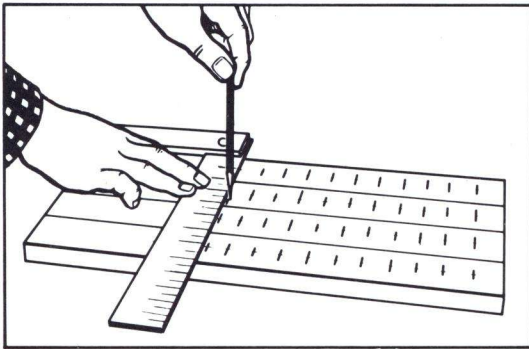
Here is an interesting "one evening" project that will provide you with an uncomplicated clamping jig with many advantages for mitering picture frames and similar objects. It is adjustable to any size frame; it applies uniform pressure to all four joints simultaneously; it leaves joints visible so you can be sure

they are straight and tight; it is light and easy to handle, minimizing the danger of damage to "new" frames or those precious old ones in need of restoration; and it eliminates the necessity of buying a separate clamp for each joint.

This practical jig overcomes the disadvantages of most other "miter clamps" which hold work of very limited size range, and apply little, if any, pressure to the joint itself.



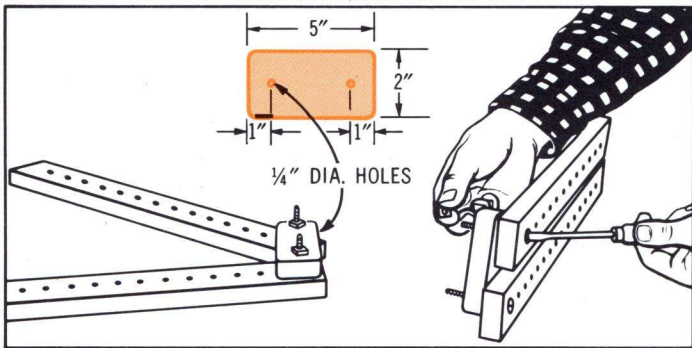
EASY TO MAKE with FEW MATERIALS and SIMPLE OPERATIONS



LEGS: (four required). Use straight, clear hardwood strips 1" thick by 2" wide, 18" long or as much longer as you wish for the jobs intended. Maple, oak, or similar hardwoods are preferred.

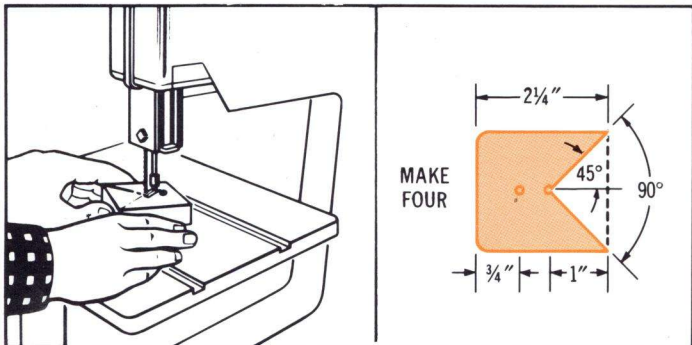
With the four strips side by side, carefully mark off 1" intervals along the full length of each. Locate centers at each interval and drill $\frac{1}{4}$ " dia. holes as marked. Accuracy is important. If you prefer, the four legs can be "stacked," clamped, and drilled simultaneously. Corners should be rounded.

Counterbore all holes on the underside of each leg to accommodate the flat-head machine screw to be used in the assembly of the clamp. This will permit the clamp to lie flat on the bench.



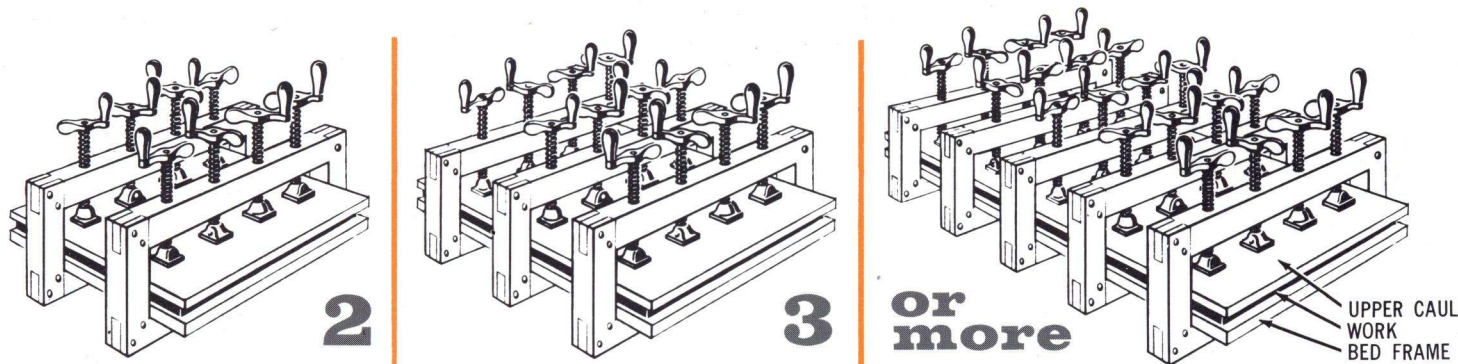
SWIVEL BARS: (two required). Use the same 1" x 2" hardwood stock, cut 5" long. Locate centers 1" in from each end and drill $\frac{1}{4}$ " dia. holes. Round the ends for neat appearance.

CORNER BLOCKS: (four required). Make from the same 1" x 2" hardwood stock, cut $2\frac{1}{4}$ " long. Mark for two $\frac{1}{4}$ " dia. holes, with one of them being 1" in from the end so it will be centered at the bottom of the right-angle "V". This will provide relief for the corners of the frame being clamped so that it will draw up properly, without crushing any sharp corners on the frame. Cut perfect 90° recesses into each block.



ASSEMBLY: You will need eight $\frac{1}{4}$ x $2\frac{1}{4}$ " flat-head machine screws, with nuts or wing-nuts to fit. Assemble the swivel bars onto the legs as illustrated. The corner blocks are assembled into each of the legs at positions determined by the size of the frame to be mitered. Make certain that the corner blocks are assembled at the same relative position in each leg.

CLAMPING: With both pairs of legs placed on the bench so that the swivel bars are on top, the four corner blocks can be roughly positioned to fit the frame. The swivel bars should be parallel to each other, and separated by some convenient distance. Pressure is applied by drawing the swivel bars together by means of a "JORGENSEN" Handscrew. On very large frames, the swivel bars may be a considerable distance apart, in which case a "JORGENSEN" (or "PONY") bar clamp can be used.



2 3 or more VENEER PRESS FRAMES

set up in a series—apply heavy, evenly-distributed clamping pressure over broad areas

- ★ TO FACE STANDARD PLYWOOD PANELS, TABLE TOPS OR COUNTER TOPS
- ★ TO LAMINATE SPECIAL PARTS, OR TO CLAMP INLAID PANELS
- ★ TO APPLY FORMICA, MICARTA AND HARDBOARD SURFACES
- ★ TO ASSEMBLE CABINET MEMBERS UNDER HEAVY PRESSURE

The size of your work determines the dimensions of frame members, and the quantity, diameter and length of Press Screws. (Keep in mind that, in general, for each 9" of work **width** you will need one screw in each frame. For each 9" of **length** you will need one **complete frame**.) The height of side members is governed by the distance the screw will travel through the top cross member, plus the thickness of work, bed and cauls.

1. For each frame, select two correct-length side members, and top and bottom members of adequate dimensions (4 x 4's are the lightest recommended!) Oak, maple, or other hardwoods are preferable.

2. Prepare mortise and tenon joints (fig. 1), drill holes for carriage bolts.

Note: For convenient inserting of long work into the press from the side, one side member of each frame can be rounded so that the frame will open up when top bolt is removed (fig. 2).

3. For press screw installation, spot holes along top member, 9 1/2" center-to-center.

Bore 3/4" dia. holes for 1 1/16" dia. Press Screws. Counter-bore underside of top member (1" dia. for "nut" of 1 1/16" dia. screws.

4. Assemble frame and secure corner bolts.

5. Remove swivel and nut from each Press Screw. Secure each nut into counter-bored holes on the underside of top members. Insert Press Screws from the top, thru the nut, and replace swivels.

6. Bed and cauls (see illustration top right). The bed and upper caul may be thick plywood panels, or metal plates, fitted to the inside width of the press frames, and as long as required. One press frame is normally used for each 9" of length, but the frames, if not fastened permanently to the bed, may be shifted closer or farther apart, depending upon circumstances and the pressure required.

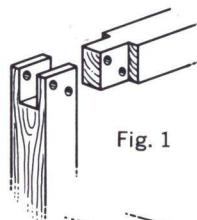


Fig. 1

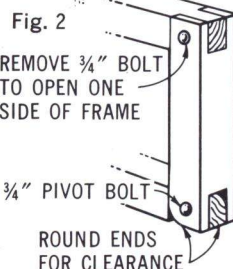
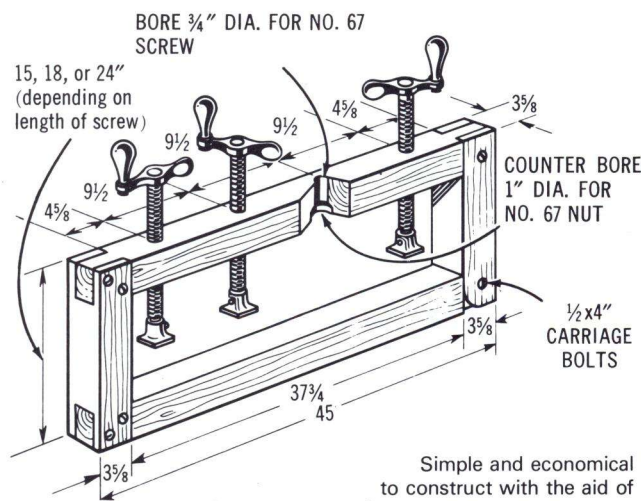


Fig. 2

REMOVE 3/4" BOLT TO OPEN ONE SIDE OF FRAME

3/4" PIVOT BOLT

ROUND ENDS FOR CLEARANCE



Simple and economical to construct with the aid of "Jorgensen" PRESS SCREWS

THESE are the PRESS SCREWS to use:

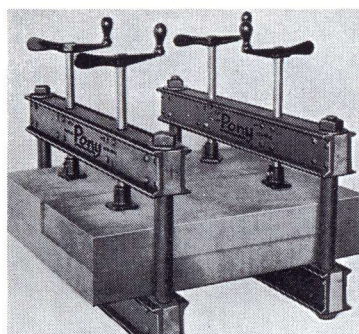
Cold-drawn steel screws, accurately threaded with balanced-type malleable iron handle that provides bearing for both hands, and malleable iron nut and swivel.

For general use, STYLE NO. 67 with 1 1/16" dia. screw.



- | | | |
|----------------|--------------|------------------|
| Stock No. 6709 | 1 1/16" dia. | 9" length screw |
| Stock No. 6712 | 1 1/16" dia. | 12" length screw |
| Stock No. 6718 | 1 1/16" dia. | 18" length screw |

convenient, READY-MADE PRESS FRAMES are extra-strong, durable, space-saving



"Pony" Veneer Press Frames are available for small quantity production jobs, occasional work-

shop projects, or to avoid tying up large presses, or where a regulation press is not required.

"Pony" VENEER PRESS FRAMES—available in two sizes

Stock No.	Inside Width Capacity	Inside Height	Screw Dia.	No. Screws (per frame)	Weight (each)
67618	18"	6"	1 1/16"	2	36 lbs.
67636	36"	6"	1 1/16"	4	56 lbs.

Bed and upper caul are not furnished.

Since one frame is required for each 9" of work length—

Two No. 67618 frames have a capacity of 18" x 18"

Four No. 67618 frames have a capacity of 18" x 36"

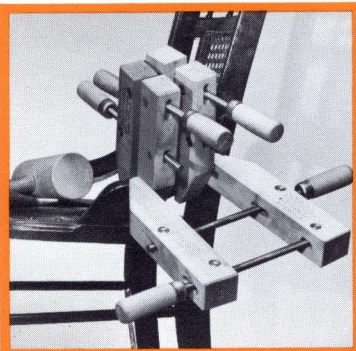
Two No. 67736 frames have a capacity of 36" x 18"

Three No. 67636 frames have a capacity of 36" x 27"

Four No. 67636 frames have a capacity of 36" x 36"

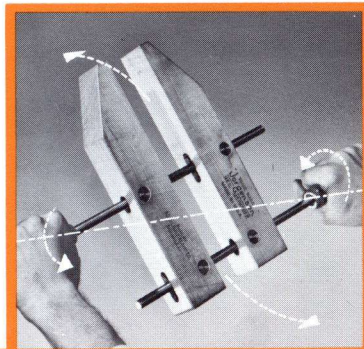
For narrow work, the distance between frames may be increased proportionately to allow for 80 sq. in. of work per screw.

The CORRECT Clamp improves results, speeds up all types of shop fabrication and assembly operations

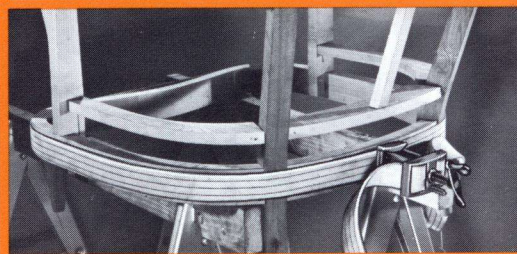


"Jorgensen" Handscrews are the preferred holding device for nearly all types of shop projects and repair work. They grip and hold odd shapes securely; will not mar highly finished surfaces.

Handscrew jaws hold tighter, reach over broader areas for wide, even distribution of clamping pressure. Fast, easy adjustment to desired opening capacity by proper "swinging" make them convenient and most effective to use.

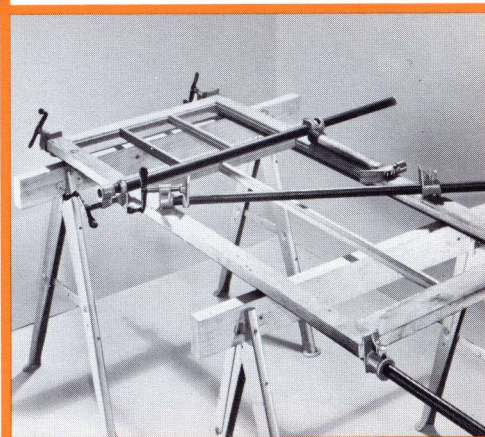
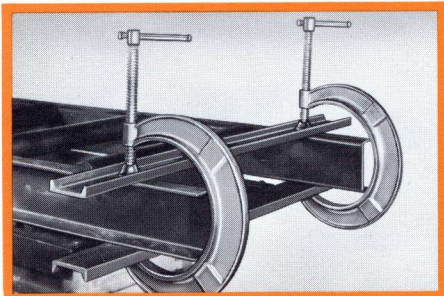


"Jorgensen" Band Clamps solve the knotty problem of clamping round or irregular shapes where uniform pressure is required simultaneously at several joints. Especially efficient for clamping furniture frames as shown.

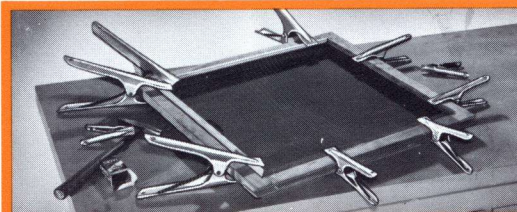


"Pony" Clamp Fixtures screw onto ordinary black pipe threads to make fast-acting bar clamps of any length. Tail-stop adjusts to work instantly, holds firmly, releases with a touch of the finger-tip.

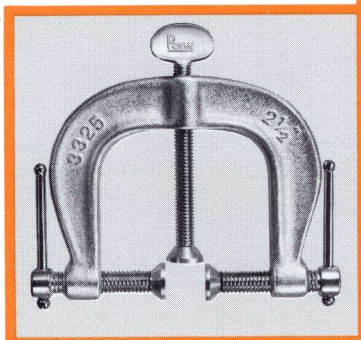
There is a "Jorgensen" or "Pony" "C" Clamp style and size for the widest possible variety of applications—from light to heavy duty. The "Industrial Service" quality of each guarantees ultimate economy and serviceability.



"Pony" Spring Clamps are the extra hands around the shop that hold your work in position while you're busy with another part of the job. For use where light pressure is adequate.



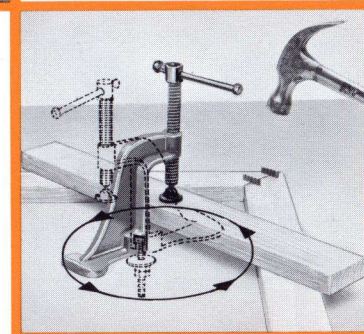
A recent innovation in hand clamps—"Jorgensen" Hold-Down Clamps—slide onto bolt-head projecting above work-surface, ready for action; slide "off" instantly to be put away when not in use.



"Pony" 3-Way Edging Clamps provide a convenient, practical method for applying "right-angle" pressure to the edge, or side, of work. Unique 3-screw design permits the "right-angle" screw to be centered, or positioned above or below center, on varying thicknesses of work.



Indispensable for installing, repairing moulding, trim and other edge-gluing or welding.



For additional information on these and the many other styles of "Jorgensen" and "Pony" Clamps, ask your favorite dealer for a catalog, or write:

Adjustable Clamp Company ■ the clamp folks ■ 433 N. ASHLAND AVENUE ■ CHICAGO, ILL. 60622